

Title (en)

CATALYTIC POLYMER ELECTRODE FOR CATHODIC PROTECTION AND CATHODIC PROTECTION SYSTEM COMPRISING SAME

Publication

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Application

EP 85904921 A 19850919

Priority

- US 65663484 A 19841001
- US 77244385 A 19850906

Abstract (en)

[origin: WO8602106A1] A catalytic polymer electrode comprises a current conducting polymer body forming an electrode base which is provided with catalytic valve metal particles fixed to its surface. A current conducting body of carbon filled thermoplastic polymer is heated to soften its outer surface, and the catalytic valve metal particles are pressed onto its softened surface and thereby attached to the surface of the polymer body. Such a catalytic polymer electrode used as an anode in an impressed-current cathodic protection system comprises a catalyst to provide a reduced oxygen potential. Such catalytic polymer anodes may be applied in systems for impressed current cathodic protection of reinforced concrete structures, such as bridge decks, support members, parking garages, or of buried or submerged steel structures such as gas and oil pipelines, offshore production platforms, fuel storage tanks, well casings.

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